

Title (en)

NANOFIBER PACKED BEDS HAVING ENHANCED FLUID FLOW CHARACTERISTICS

Title (de)

FESTBETT AUS NANOFASERN MIT VERBESSERTER DURCHFLUSSCHARAKTERISTIK

Title (fr)

LITS DE NANOFIBRES COMPRIMÉES A CARACTERISTIQUES AMÉLIORÉES D'ÉCOULEMENT DE FLUIDE

Publication

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Application

EP 97914874 A 19970305

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- US 61136796 A 19960306

Abstract (en)

[origin: US5985112A] The general area of this invention relates to porous materials made from nanofiber packed beds. More particularly, the invention relates to altering the porosity or packing structure of a nanofiber packed bed structure by blending nanofibers with scaffold particulates having larger dimensions. For example, adding large diameter fibers to a nanotube packed bed to serve as a scaffolding to hold the smaller nanofibers apart and prevent the nanofiber bed structure from collapsing. This increases the average pore size of the mass by changing the pore size distribution and alters the packing structure of the packed bed. The increase in average pore size is caused by the creation of larger channels which improves the flow of liquids or gasses through these materials.

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IPC 8 full level

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